



TOP SECRET

I  
MAGERY  
A  
NALYSIS  
D  
IVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

SEVERODVINSK NAVAL BASE AND  
SHIPYARD 402, SEVERODVINSK, USSR

Declass Review by NIMA/DOD

CIA/PIR 67165

DATE JANUARY 66  
COPY 90  
PAGES 9

TOP SECRET

25X1

Approved For Release 2003/05/05 : CIA-RDP78T05161A000800010086-7

Approved For Release 2003/05/05 : CIA-RDP78T05161A000800010086-7

X1

Approved For Release 2003/05/05 : CIA-RDP78T05161A000800010086-7

TOP SECRET

25X1

CIA/PIR-67165

CIA IMAGERY ANALYSIS DIVISION

SEVERODVINSK NAVAL BASE AND SHIPYARD 402

SEVERODVINSK, USSR

25X1

- 1 -

Approved For Release 2003/05/05 : CIA-RDP78T05161A000800010086-7

TOP SECRET

25X1

TOP SECRET

CIA/PIR-67165

CIA IMAGERY ANALYSIS DIVISION

SHIPYARD : NAVAL BASE & SHIPYARD 402  
 LOCATION : SEVERODVINSK, USSR  
 GEO COORDS: 64-35N 039-50E

## KEY TO ANNOTATIONS

1. ZEYA Class YSRN (visible LOA approx 225'). This auxiliary (classified as a Nuclear Ship Support Barge) has been previously observed alongside the eastern (opposite) end of the Nuclear Submarine Special Support Facility quay in both the [redacted] coverages of this installation. See annotation 8, [redacted] and annotation 1, Figure 8, [redacted]. Depressed center section plus unique small forward superstructure atop raised-one hull profile contribute to this identification. If the function of this vessel entails the storage or transfer of nuclear waste products from submarine recoring its present berthing at this particular location may be significant. In CIA/PIR-67041 it was noted that a major function of the Nuclear Submarine Special Support Facility, Yagry Island, was the re-fueling (recoring) of nuclear submarines. It was further noted that on [redacted] a high square-shaped housing resembling a "M-130" house was visible mounted on supports spanning the craneway at the western end of the quay. See annotation 9, Figure 8, [redacted] a rail line was observed under construction toward the western end of Yagry Island (see annotations "B" and "C", Figure 1, [redacted]; this spur had not as yet reached the Nuclear Submarine Special Support Facility. As of this mission [redacted] construction of the Support Facility itself is still incomplete. (Note four exposed tanks and roofing in progress at annotation "A".)

On [redacted] the ZEYA Class YSRN is berthed directly alongside the western edge of the quay. Furthermore, the after extremity of the depressed center section of this auxiliary is in line with a small structure (annotation 1a) on the quay which is located in the same position (on [redacted] photography) as was the structure resembling the "M-130" house on [redacted] photography). Should this vessel in fact be associated with nuclear waste disposal and should the structure on the quay fulfill a function similar to the "M-130" house, the sighting of this ship at this berthing space alongside the quay may be indicative of an intermediate method of handling the fissionable materials from recoring prior to the completion and/or full operation of a rail-served shore facility.

TOP SECRET

TOP SECRET

CIA/PIR-67165

CIA IMAGERY ANALYSIS DIVISION

The "N" Class SSN, it's associated probable RADCON/DECON barge, and the "PM-124" AG previously observed at this berthing space on [ ] (see annotations 4, 5, and 7, Figure 8, [ ] are no longer present at this facility. A probable "PM-124" and an unidentified submarine are observed on this coverage alongside the floating dock which is perpendicular to the Fitting-out Quay, Main Yard. See annotations 22 and 23, Figure 1.

2. Possible "E" Class SSGN (visible waterline length approx 345'). Submarine is in an identical position outboard of a support barge as was an "E-II" Class SSGN observed on 30 May (see annotation 2, Figure 8, [ ] [ ] A possible jacketing device, a possible shed over forward sail position and a round object on submarines's foredeck all equate to similar imagery observed on the "E-II" Class SSGN in this position on [ ] A probable crane (annotation 2a) is located on the quay in line with mid-section of the possible "E" Class SSGN.

Unidentified imagery was observed in this position on [ ] (see annotation 9, [ ])

3. Unidentified possible SS alongside Naval Base Pier (indistinct imagery precluded measurement).
4. BOLVA Class APL (visible LOA approx 350'). See annotation 8, Figure 7, [ ]
5. Two probable RIGA Class DE (LOA of each approx 300'). See annotation 7, Figure 7, [ ]
6. Probable "E" Class SSGN (visible waterline length approx 375'). Hull outline, flat deck and possible exhaust deflectors contribute to this identification. Submarine is dead in the water. Two small rectangular raft-like objects are positioned alongside the mid-section of the submarine on what appears to be its starboard side.
7. Two possible large Missile Target Barges (YAGT). LOA of each approx 340'.
8. Approximately ten small unidentified objects on quay. Six of these objects occupy the same position as the cylindrical objects seen on this quay on [ ] (see annotation 5, Figure 5, [ ]). The very large floating crane observed alongside this quay in [ ] (see annotation 6, Figure 5, [ ] and annotation 5, [ ] has been moved to a position alongside the floating dock located perpendicular to the Fitting-out Quay, Main Yard. See annotation 25, Figure 1.
9. Possible target barge (LOA approx 350').

TOP SECRET

TOP SECRET

CIA/PIR-67165

CIA IMAGERY ANALYSIS DIVISION

10. Small floating crane.  
This crane was last sighted against inner quay of side launching basin.  
See Figure 3, [ ]
11. Possible "J" Class SSG (visible waterline length approx 270'). See  
annotation 2, [ ]
12. Unidentified auxiliary (visible LOA approx 300'\*).  
This is probably the same ship sighted in an identical position on [ ]  
[ ] See annotation 2, Figure 5, [ ]
13. Probable "J" Class SSG (visible waterline length approx 280').  
See annotation 1, [ ] The two (possible/probable) "J" Class  
SSG and an unidentified auxiliary (annotations 11, 12, and 13; Figure  
1) are berthed in nearly identical positions as two "J" Class SSG and  
a similar looking auxiliary observed at this quay on [ ] see anno-  
tation 1-3, Figure 5, [ ]. The third "J" Class SSG observed on  
[ ] at the West Quay (see annotation 4, Figure 2, [ ] was not  
observed at Severodvinsk on this [ ] coverage.
14. Possible "G" Class SSB (visible waterline length approx 320').  
The sail may be partially removed. A "G" Class SSB with its sail  
housing partially removed was berthed roughly 300 feet northeast of  
this position in [ ] See annotation 5, Figure 6, [ ] and anno-  
tation 3, [ ]
15. Possible DE (LOA approx 300'\*).
16. Unidentified DD (LOA approx 400'\*).
17. Eight unidentified small possible naval craft on quay (LOA of each  
approx 90'\*). See annotation 6, Figure 3, [ ]
18. Two unidentified objects on side launching way (LOA of each approx  
305').  
Objects are in the same position as observed on [ ] (see annotation  
12, [ ]. These two objects are now spanned by two connecting  
structures (see annotation 19 below) creating the impression that this  
may be a catamaran-type vessel. Inner width between these two objects  
is approximately 55 feet; maximum (outer) width is approximately 80  
feet.

TOP SECRET

TOP SECRET

CIA/PIR-67165

CIA IMAGERY ANALYSIS DIVISION

19. Two unidentified heavy, angular, arch-shaped objects connecting the two 305 foot long objects on side launching way. These heavy arch-like structures were previously observed in [ ] on the corner of the quay by the construction hall. See annotation 1, Figure 3, [ ]
20. Unidentified SS (apparent visible waterline length approx 360'). The faintly visible hull outline is more suggestive of an "N" Class SSN than of either an "E" Class SSGN or an "H" Class SSBN. Submarine is berthed alongside and outboard of an unidentified vessel.
21. Possible "N" Class SSN (visible waterline length approx 355'). Probable bow is very visible. This submarine is in an identical position outboard of a support barge as an "N" Class SSN observed on [ ] (see annotations 11 and 14, Figure 4, [ ] and annotation 10, [ ]). A blunt-ended barge with no apparent superstructure (possibly equating to the probable catamaran-type barge observed on [ ] - annotation 13, Figure 4, [ ] and three smaller possible yard craft are outboard of the submarine. A crane is working from the quay over the foredeck of the possible "N" Class SSN.
22. Probable "PM-124" AG (visible LOA approx 305'). Hull outline, placement of topside superstructure and sloping crescent-shaped area on after extremity of ship contribute to this identification. The "PM-124" was last identified at the Nuclear Submarine Special Support Facility, Yagry Island, on [ ] See annotation 7, Figure 8, [ ]
23. Unidentified SS (after end point undetermined). Beamy visible hull outline forward resembles that of the "N" Class SSN; however, no "staybrite" area is visible on bow.
24. Large floating dock occupied by possible "N" Class SSN (LOA of submarine is approx 355'). A probable stern fin aft and its shadow on dock floor contribute to this tentative evaluation. Dock did not appear to be occupied on [ ] (see annotation 7, [ ] although an "N" Class SSN was observed in this dock on [ ] (annotation 9, Figure 4, [ ])
25. Probable large floating crane (visible platform dimensions roughly 160' x 90'\*). This is most likely the same large floating crane that was observed on [ ] at the East Quay within working radius of six cylindrical sections on quay. (See annotation 6, Figure 5, [ ]) This crane was also by East Quay on [ ] (see annotation 5, [ ])

TOP SECRET

TOP SECRET

CIA/PIR-67165

CIA IMAGERY ANALYSIS DIVISION

26. Unidentified submarine outboard of service barge alongside quay (apparent waterline length approx 390').  
Two small linear objects similar to the floating vertical security screens observed in [ ] are in the water alongside the submarine. An "E-II" Class SSGN was observed to be berthed in this identical position on [ ] See annotation 7, Figure 4, [ ] and annotation 6, [ ]
27. Unidentified large submarine berthed outboard of service barge alongside quay (poor end points precluded measurement of waterline lengths). An "E-II" Class SSGN was berthed in this identical position on [ ] See annotation 4, Figure 4, [ ] and annotation 6, [ ]
28. Unidentified large submarine berthed outboard of service barge alongside quay (poor end points precluded measurement of waterline length).  
An "E-II" Class SSGN was berthed in this identical position on [ ] See annotation 2, Figure 4, [ ] and annotation 6, [ ]
29. Possible "E" Class SSGN outboard of possible support barge alongside quay. Visible waterline length of submarine is approximately 375 feet. Possible support barge is partially obscured by shadow from crane on quay. One small and one larger linear object similar to the floating screens previously observed with the "E-II" Class SSGN are located in the water alongside the submarine. Deck interruptions, possibly equating to missile exhaust ports/deflectors, are visible by the after end of each of the objects in the water. This berthing space was unoccupied in [ ] coverage.
30. Probable "H" Class SSBN in floating dock resting on unflooded shallow side of main launch basin. LOA of submarine is no greater than approximately 390 feet; LOA of dock is approximately 435 feet\*. Sheds or canvas cover both ends of the submarine. The sail of this submarine measures approximately 90 feet \* in length. It is possible that this is the same submarine observed on [ ] in a floating dock at the Fitting-out Quay, North Yard (new wet dock facility under construction) on Yagry Island. See annotation 15, Figure 6, [ ] Figure 6b, [ ] and annotation 4, [ ]  
  
The following similarities and differences were noted between the [ ] (probable) "H" Class sightings: (1) The dimensions for the floating dock containing the submarines are nearly

TOP SECRET



TOP SECRET

CIA/PIR-67165

CIA IMAGERY ANALYSIS DIVISION

identical - the only other large dock at Severodvinsk appears to be the dock always observed perpendicularly placed along the Fitting-out Quay, Main Yard which has a slightly smaller length; (2) canvas or sheds covered nearly identical areas of the forward section of the submarine in both sightings; (3) the mid-section of the after deck of the "H" Class seen on [ ] was covered by approximately [ ] of sheds or canvas - in [ ] the aftermost extremity of the submarine is covered by sheds/canvas approximately 60 feet \* in length; (4) a small shack was observed on both submarines approximately 30-35 feet abaft the after edge of the sail; and (5) the submarine observed on [ ] was no longer than approximately [ ] (and was believed to be slightly less than this due to an apparent displacement of the forward shed extension from the centerline) whereas the distance between each of the two shed extremities along the centerline of the submarine observed on [ ] is approximately 390 feet (the actual NPIC/TID measurement was approximately [ ] on [ ] monoscopic photography); it cannot be determined whether this distance does, in fact, represent the actual length overall of this submarine.

31. Submarine support barge (LOA approx 185').  
Barge is berthed outboard of a small yard craft which in turn is berthed alongside the edge of the deep basin. A white line leads from the edge of the drydock containing the probable "H" Class SSBN to either the small yard craft or the support barge. The distance between the barge and the dock (annotation 30) along this line is approximately 300 feet. A second line may possibly connect the barge with the dock further aft (at a point on the dock further aft with respect to the submarine in the dock).
32. Possible rectangular support barge (LOA approx 220'\*).  
A possible white line connects this barge with the possible "N" Class SSN on the unflooded shallow side of the launch basin. See annotation 33 below.
33. Possible "N" Class SSN (visible LOA approx 355').  
Port stabilizer and general hull outline confirm identification of this vessel as a submarine. Probable vertical fin on stern contributes to tentative evaluation as possible "N" Class. No sail is visible although sun angle may not be low enough to permit a possible sail shadow to be visible beyond the shadow from the submarine's starboard hull outline. No "staybrite" belt is visible on bow although bow of the submarine is partially obscured by shadow from wall of dock containing the probable "H" Class SSBN. A probable submarine support barge (LOA approx 190'\*)

TOP SECRET

TOP SECRET

CIA/PIR-67165

CIA IMAGERY ANALYSIS DIVISION

similar to those observed with nuclear submarines in [ ] is located out of the water on the shallow basin floor directly along the port side of the possible "N" Class SSN.

34. Three possible semi-circular "frames" on quay. These objects are located in the identical position on the quay as were the easternmost "frames" observed on [ ] (see annotation 15, Figure 4, [ ]). The remaining "frame" and the three arch-like objects observed in this area of the quay on [ ] are no longer present in [ ]

# KEY TO FACILITY ANNOTATIONS

- A. Construction is still continuing on the square-shaped building adjacent to the structure containing the eight large storage tanks at the Nuclear Submarine Special Support Facility, Yagry Island. The roof on the southwest corner of this building does not yet appear to be completed. The westernmost set of two large tanks has not yet been covered. Roofing for the structure containing the eight tanks still does not extend over the last four tanks.
- B. Furthest western extension of railroad bed under construction from the Naval Repair Facility, Yagry Island. On larger scale [ ] photography of [ ] railroad tracks were visible at this point; however, no bridges were observed to have spanned the many small streams and ditches which cut through the railroad bed.
- C. Present western terminus of railroad from mainland. The spur line noted under construction from the Naval Repair Facility, Yagry Island, toward the Nuclear Submarine Special Support Facility at the southwestern end of the island leads from this point to annotation "B" above.
- D. Roof is nearly half completed on new building under construction at the Yagry Island Naval Repair Facility (approximate dimensions of this building are 440' x 80'\*).
- E. Construction appears to be continuing on new quay just west of the new wet dock under construction at the Naval Repair Facility, Yagry Island.

TOP SECRET

25X1

Approved For Release 2003/05/05 : CIA-RDP78T05161A000800010086-7

TOP SECRET

CIA/PIR-67165

CIA IMAGERY ANALYSIS DIVISION

F. Transverser under construction leads from the side of probable hull section assembly shop. The platform is approximately 85 feet wide, extends south and may reach a length of 270 feet \*. Distance from end of transverser to rear of main construction hall is roughly 450 feet. As yet no perpendicular tracks appear to connect the transverser with the construction hall although a possible track bed, or embankment, is visible leading from the transverser to the extreme northeast corner of the construction hall (running adjacent to and just north of the northernmost of the two small shops extending from the rear of the main construction hall). At least five sets of tracks are visible within a large section of the transverser foundation. On [ ] the transverser foundation was visible but no tracks had as yet been laid. No embankment or track bed had yet been constructed from the transverser to the main construction hall on [ ] This transverser system appears to be very similar to the new transverser system observed under construction at Amur Shipyard 199, Komsomolsk, USSR (50-33N 137-02E). See annotation 2, CIA/PIR-67103 (Amur Shipyard, [ ])

NOTE: All measurements except those followed by an asterisk (\*) have been made by the NPIC Technical Intelligence Division and are considered accurate within plus or minus ten feet or ten per cent, whichever is greater. All those measurements followed by an asterisk (\*) have been performed by the CIA/IAD project analyst. They should not be construed as being mensuration data compiled by the NPIC Technical Intelligence Division.

## REFERENCES

## DOCUMENTS

CIA/PIR-67164, Severodvinsk Naval Base and Shipyard 402, Severodvinsk, USSR, Mission [ ] (TOP SECRET [ ])

CIA/PIE-67041, Severodvinsk Naval Base and Shipyard 402, Severodvinsk, USSR, Mission [ ] (TOP SECRET [ ])

CIA/PIR-67013, Amur Shipyard 199, Komsomolsk, USSR, Mission [ ] (TOP SECRET [ ])

TOP SECRET

Approved For Release 2003/05/05 : CIA-RDP78T05161A000800010086-7

TOP SECRET

Approved For Release 2003/05/05 : CIA-RDP78T05161A000800010086-7

SEVERODVINSK NAVAL BASE & SHIPYARD 402  
64-35N 39-50E  
SEVERODVINSK, USSR

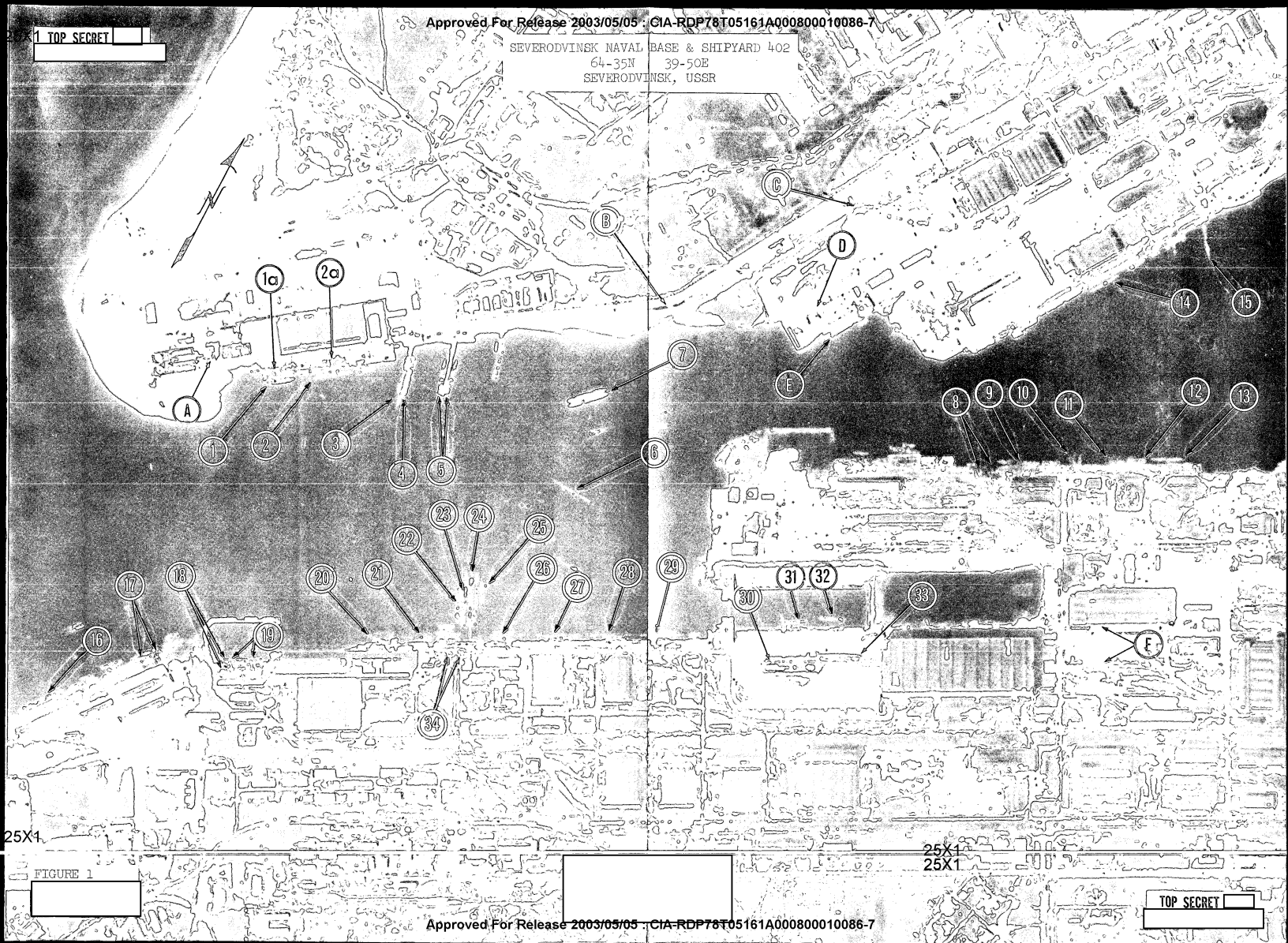


FIGURE 1

Approved For Release 2003/05/05 : CIA-RDP78T05161A000800010086-7

TOP SECRET

**TOP SECRET**

**TOP SECRET**